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Application No. 10/750,826
Amendment dated August 1, 2007
Reply to Office Action of April 25, 2007

Docket No. 3313-1089P
Art Unit: 2609
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AMENDMENTS TO THE CLAIMS

1. (Currently Amended) An image chromatism compensation method for adjusting image dispersion distances in all channels of an image captured by an image capturing device to achieve image chromatism compensation, the method comprising the steps of:

capturing a reference mark image;

obtaining an image dispersion distance between two reference marks in a predetermined channel of the reference image;

obtaining an image dispersion distance between the two reference marks in a first other channel of the reference image;

obtaining an image dispersion distance between the two reference marks in a second other channel of the reference image;

computing a image dispersion calibration ratio, wherein the image dispersion calibration ratio is 1 : (distance between the two reference marks in the predetermined channel) / (distance between the two reference marks of the first other channel) : (distance between the two reference marks in the predetermined channel) / (distance between the two reference marks of the second other channel), and the distances are measured in units of pixels; and

storing the image dispersion calibration ratio.

2. (Original) The method of claim 1, wherein the image capturing device is a scanner.

3. (Original) The method of claim 1, wherein the image capturing device is a digital camera.

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4. (Original) The method of claim 1, wherein the reference image contains at least two reference marks.
5. (Original) The method of claim 1, wherein the reference image is obtained from a calibration sheet with at least two reference marks.
6. (Original) The method of claim 1, wherein the reference image is obtained from the calibration sheet with at least two reference marks in the image capturing device.
7. (Original) The method of claim 1, wherein the predetermined channel is selected from the group consisting of an R channel, a G channel, and a B channel.
8. (Cancelled)
9. (Currently Amended) The method of claim 8, wherein the first other channel and the second other channel refer to the channels in the RGB channels that are different from the predetermined channel.
10. (Original) The method of claim 1 being carried out when the image capturing device powers on for calibration.